



## Background

Recombinant Monoclonal Anti-PD-1 Antibody, Mouse (2F3) is a PD-1 primary antibody for IHC application. Programmed cell death protein 1 (PDCD1) is an immune-inhibitory receptor expressed in activated T cells; it is involved in the regulation of T-cell functions, including those of effector CD8+ T cells. In addition, this protein can also promote the differentiation of CD4+ T cells into T regulatory cells. PDCD1 is expressed in many types of tumors including melanomas, and has demonstrated to play a role in anti-tumor immunity.

Moreover, this protein has been shown to be involved in safeguarding against autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and anti-microbial immunity.

## Key parameter

Host Species	Mouse
Isotype	IgG
Clone	2F3
Application	IHC
Property	1: 500
State	Liquid
Positive Control	Human Tonsil Tissues
Clonality	Monoclonal
Research Field	Cancer Drug Targets
Source	Mouse
Synonym	PD1, CD279, PD-1, PDCD1

## Experiment Protocol

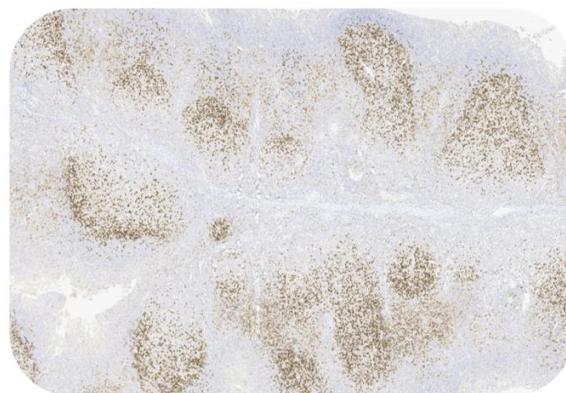
LEICA Experiment Protocol(Manual)

## Storage

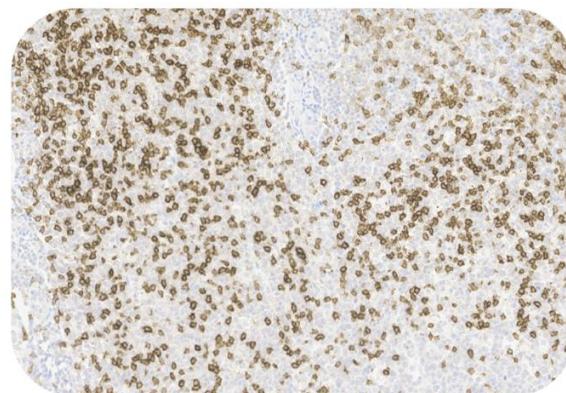
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. The shelf life is 30 days from the date of opening.

## Typical Data

### Control Sample



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) -Recombinant Monoclonal Anti-PD-1 Antibody, Mouse (2F3) (HGS-S238)  
Human Tonsil Tissue, 4X



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) -Recombinant Monoclonal Anti-PD-1 Antibody, Mouse (2F3) (HGS-S238)  
Human Tonsil Tissue, 20X

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# Recombinant Monoclonal Anti-PD-1 Antibody, Mouse (2F3)

Catalog # HGS-S238

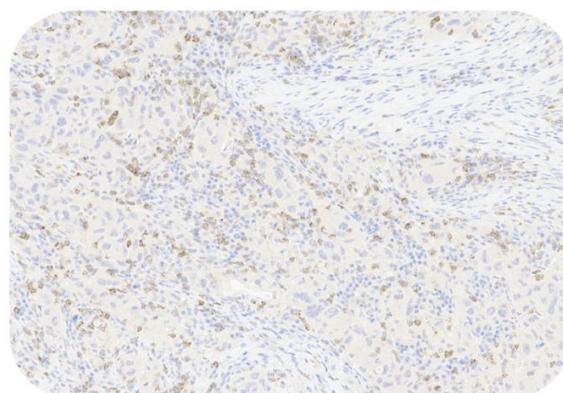


BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Immunohistochemical analysis of paraffin embedded Human tonsil tissue labelled with HGS-S238 at 1/500 dilution.

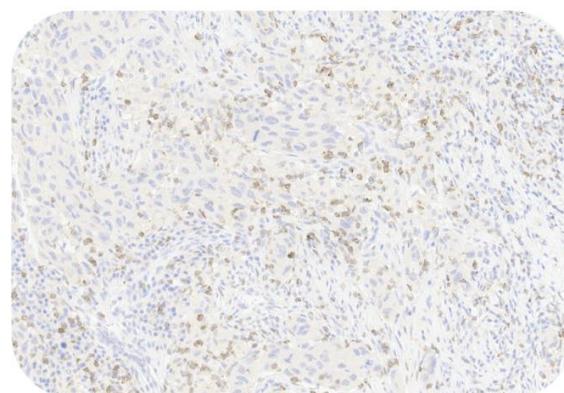
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

### Cancer Sample



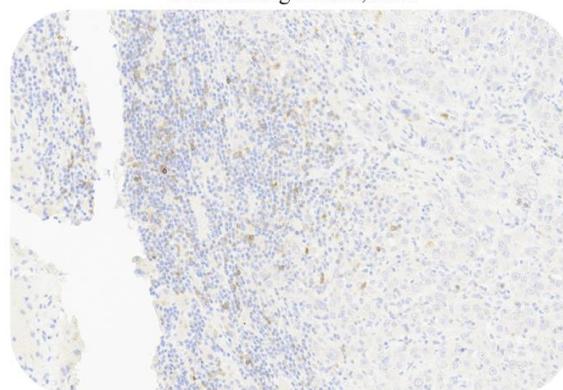
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) -Recombinant Monoclonal Anti-PD-1 Antibody, Mouse (2F3) (HGS-S238)

Human Lung Cancer, 20X



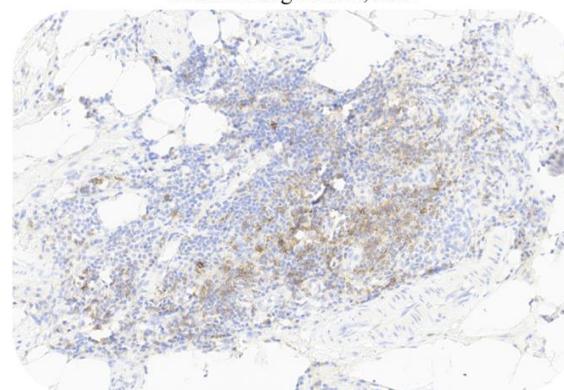
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) -Recombinant Monoclonal Anti-PD-1 Antibody, Mouse (2F3) (HGS-S238)

Human Lung Cancer, 20X



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) -Recombinant Monoclonal Anti-PD-1 Antibody, Mouse (2F3) (HGS-S238)

Human Liver Cancer, 20X



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) -Recombinant Monoclonal Anti-PD-1 Antibody, Mouse (2F3) (HGS-S238)

Human Colorectal Cancer, 20X

## Immunohistochemical analysis of paraffin embedded human cancer tissue labelled with HGS-S238 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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